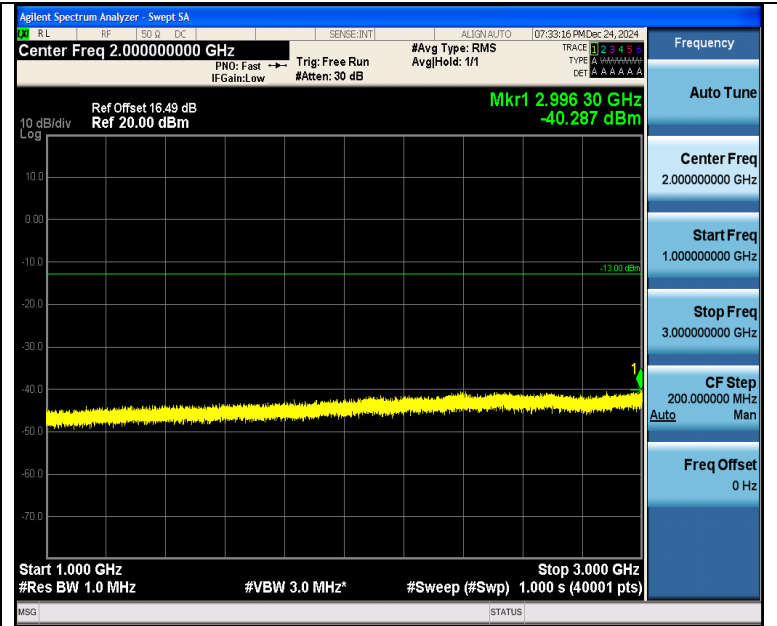
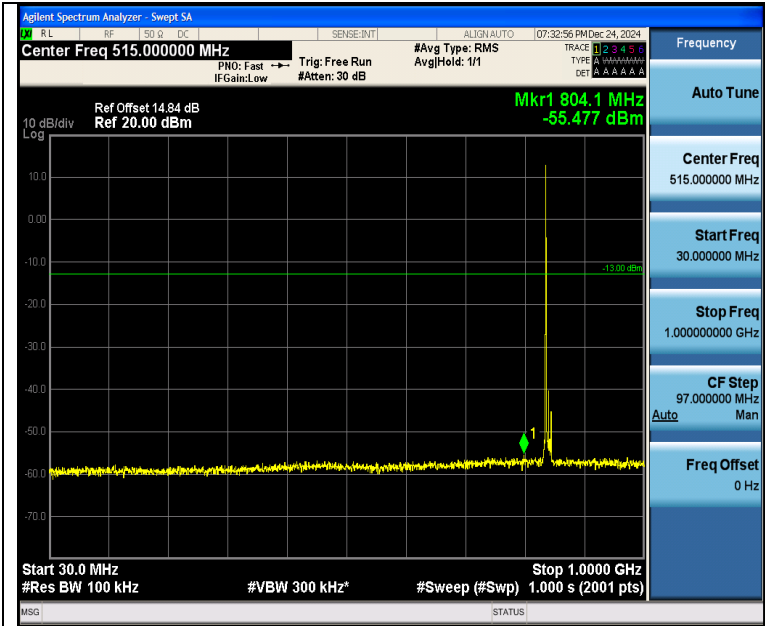
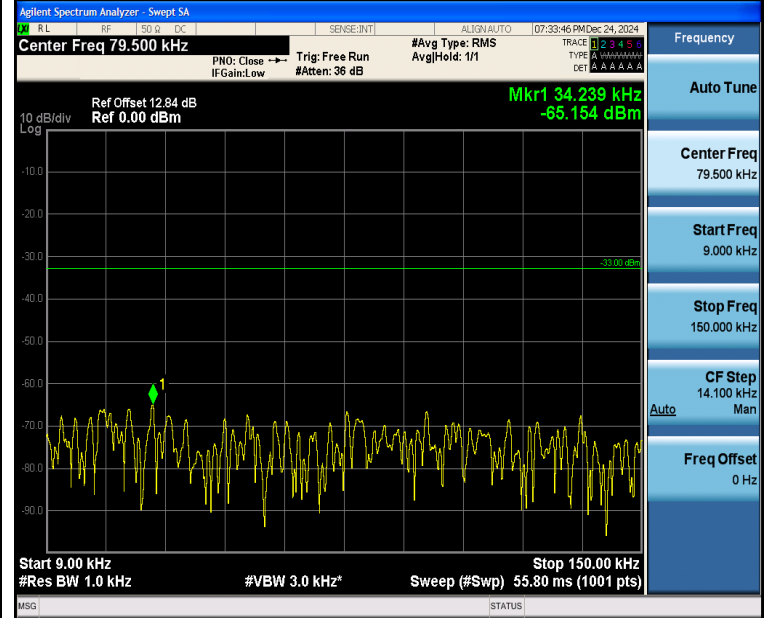
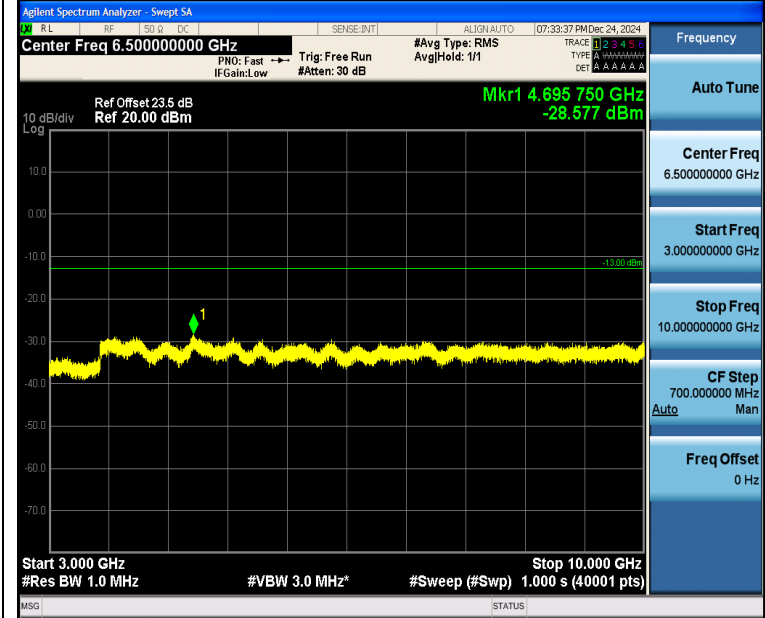




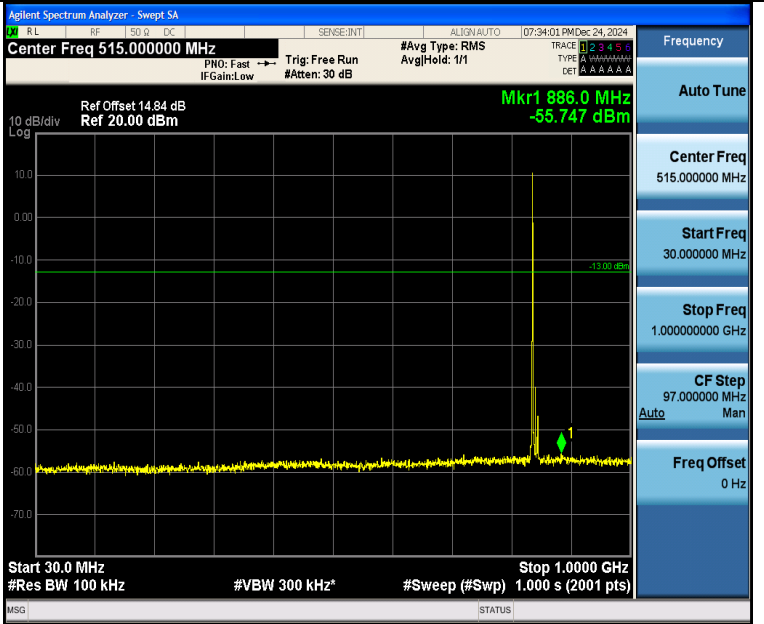
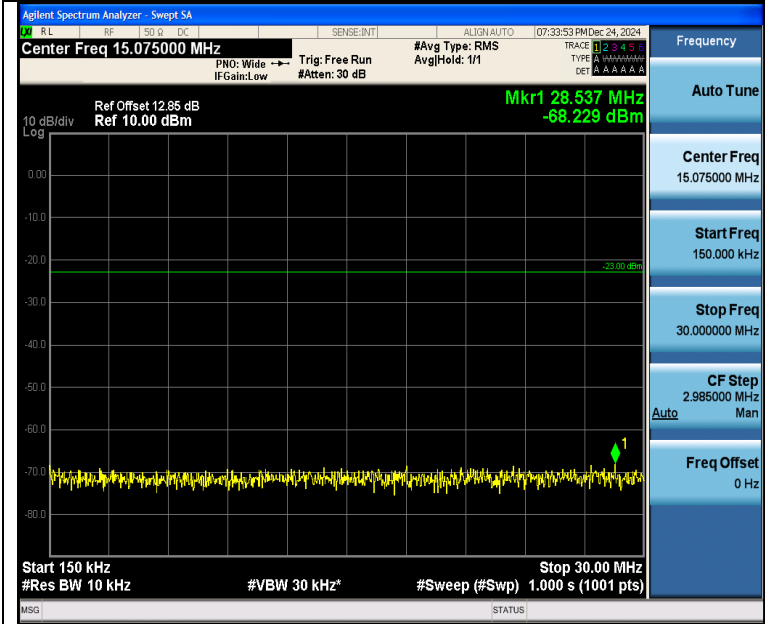
Band5\_10MHz\_QPSK\_20600\_1RB#0\_30~1000\_30~1000

Band5\_10MHz\_QPSK\_20600\_1RB#0\_1000~3000\_1000~3000



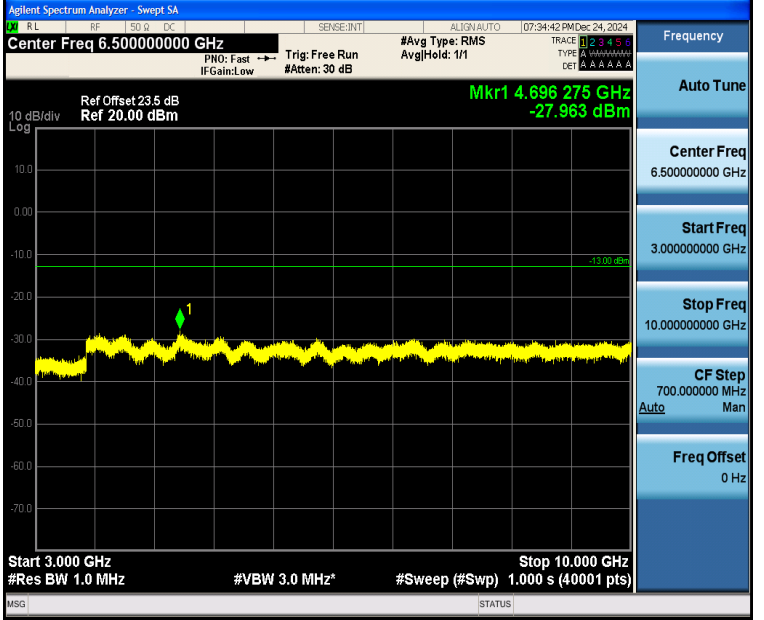
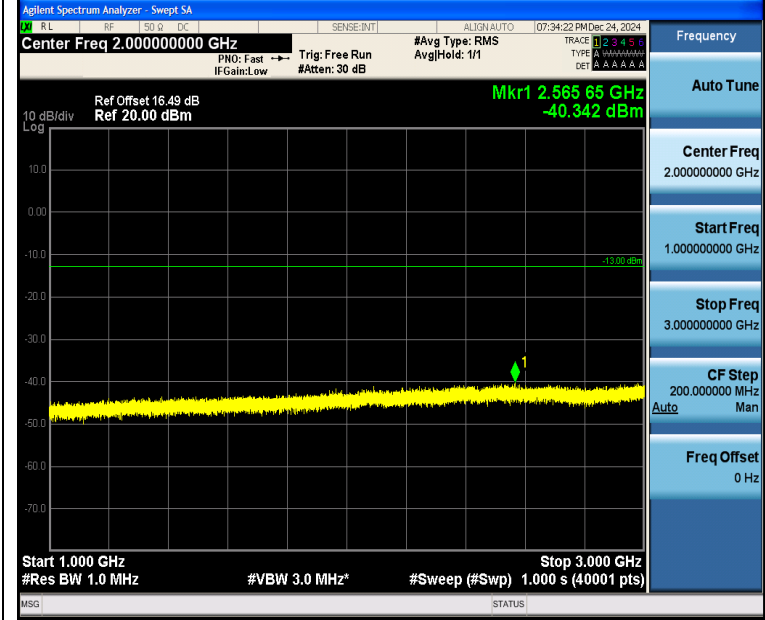
Band5\_10MHz\_QPSK\_20600\_1RB#0\_3000~10000\_3000~10000

Band5\_10MHz\_16QAM\_20600\_1RB#0\_0.009~0.15\_0.009~0.15



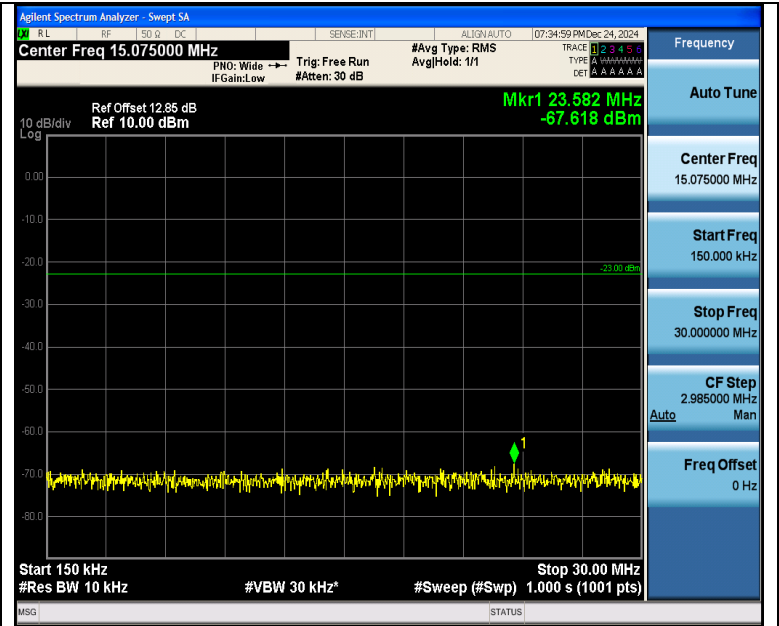
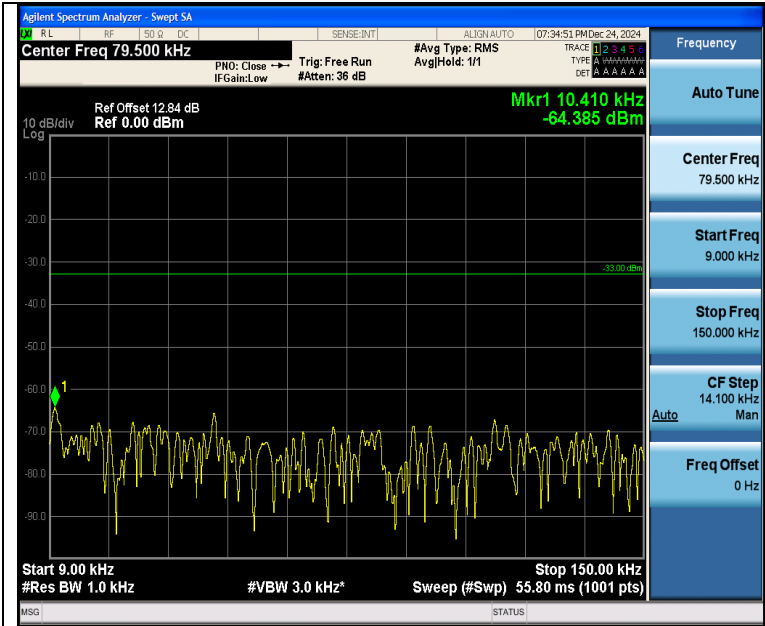
Band5\_10MHz\_16QAM\_20600\_1RB#0\_0.15~30\_0.15~30

Band5\_10MHz\_16QAM\_20600\_1RB#0\_30~1000\_30~1000



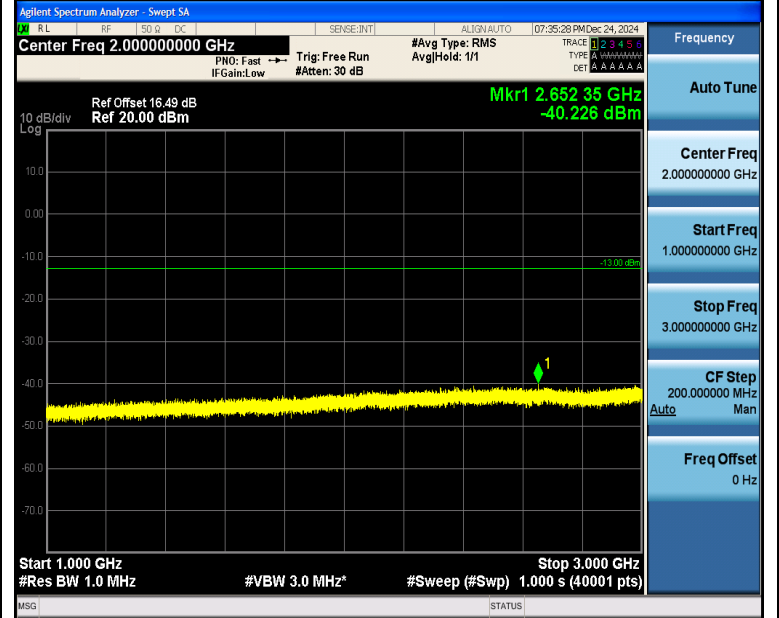
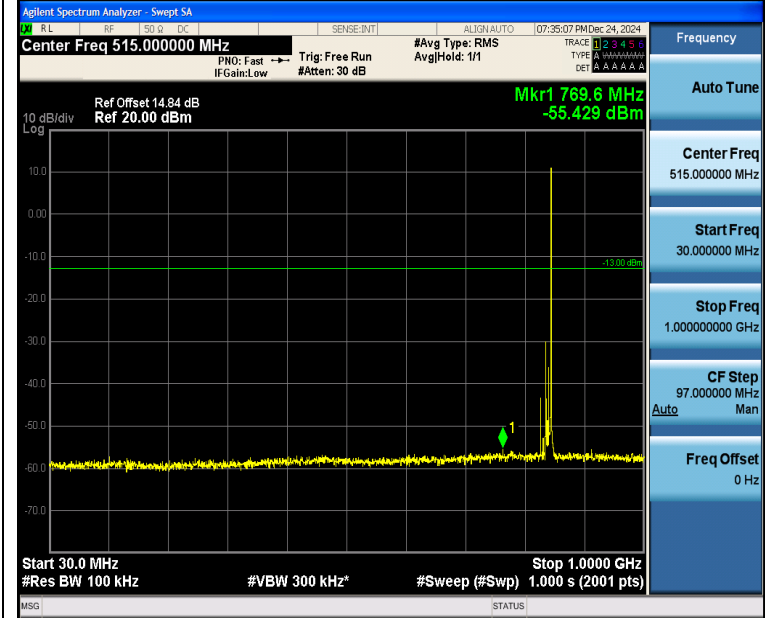
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Band5\_10MHz\_16QAM\_20600\_1RB#0\_3000~10000\_3000~10000



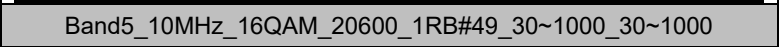
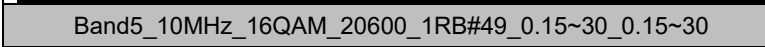
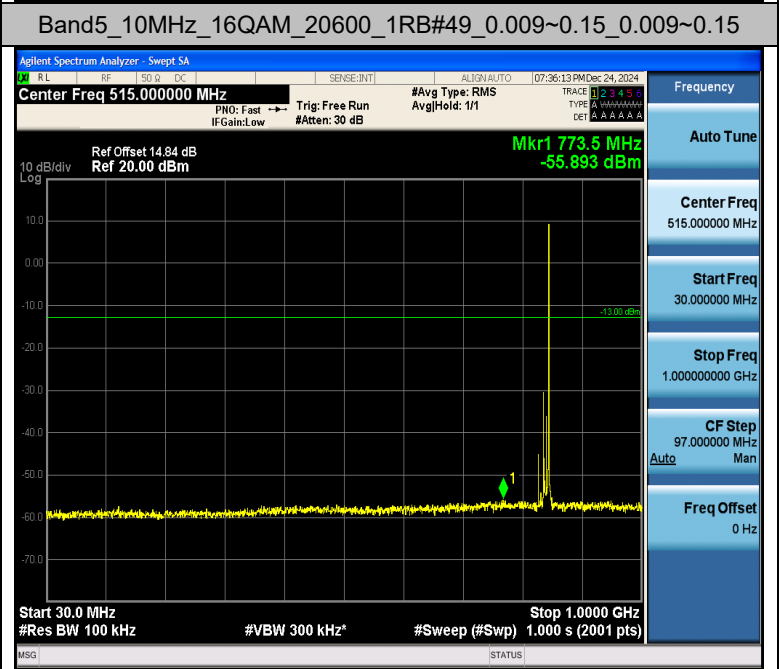
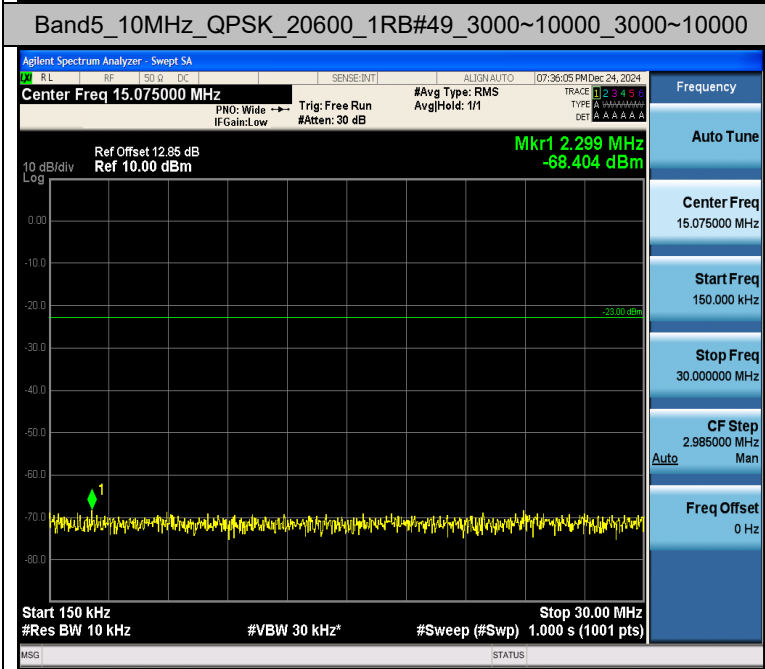
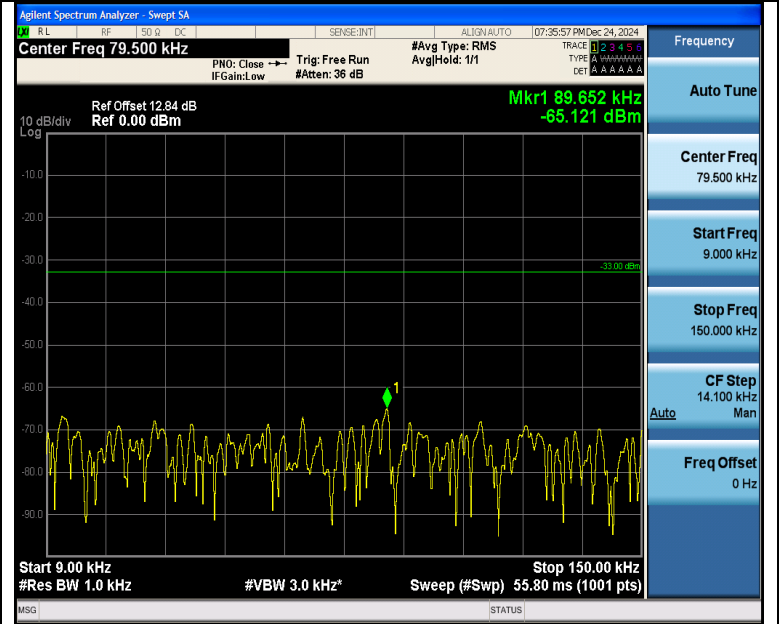
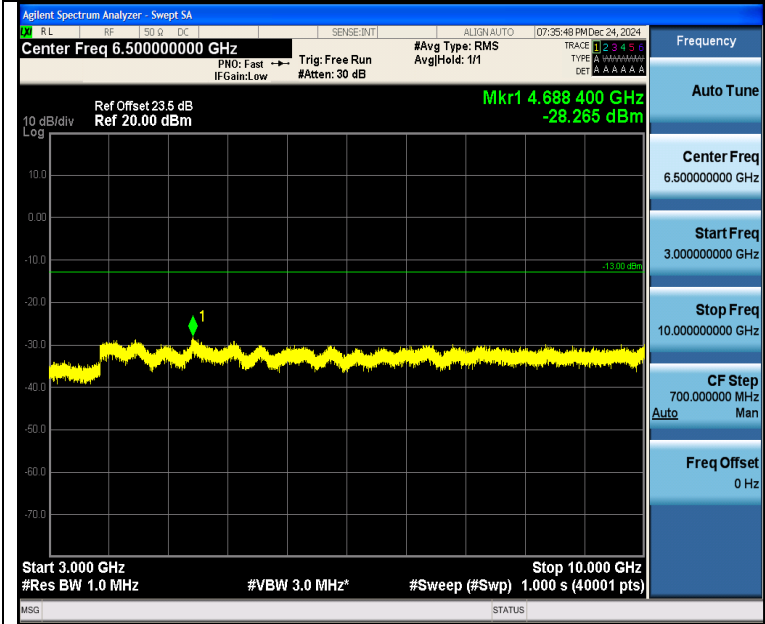
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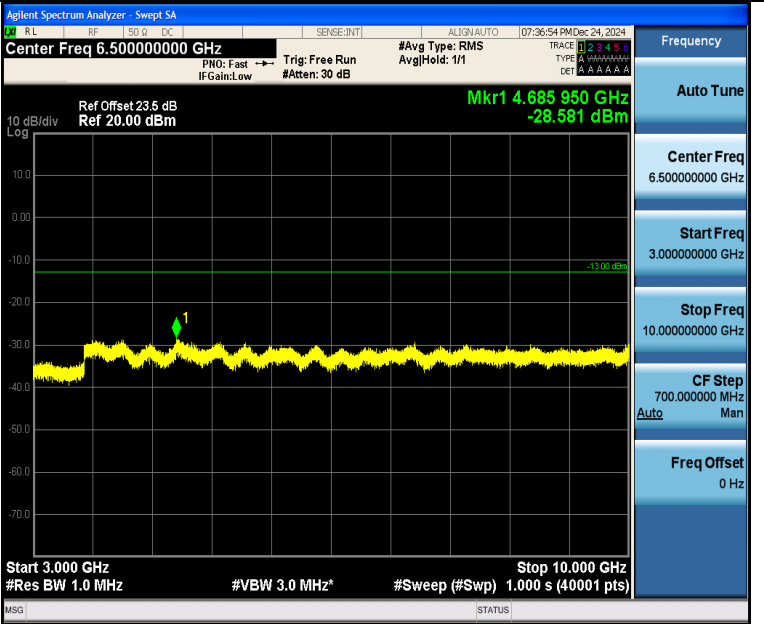
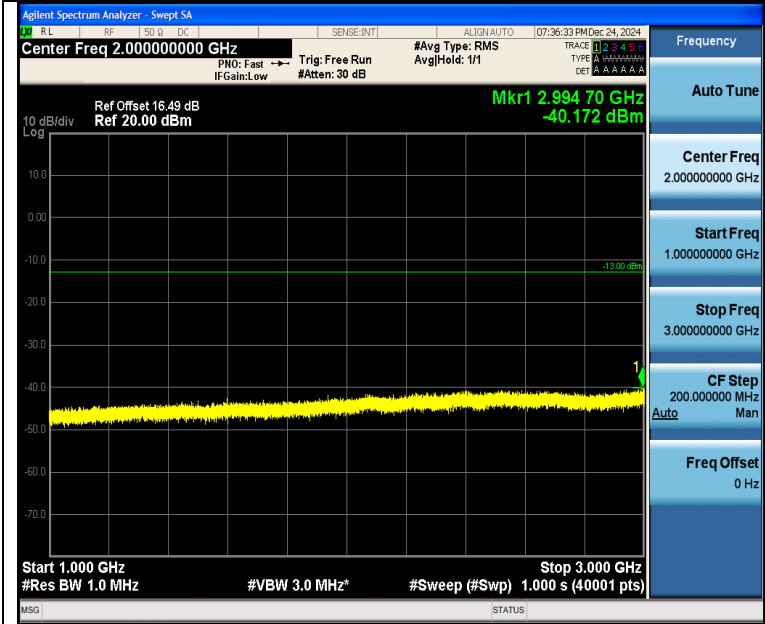
Band5\_10MHz\_QPSK\_20600\_1RB#49\_0.15~30\_0.15~30



Band5\_10MHz\_QPSK\_20600\_1RB#49\_30~1000\_30~1000

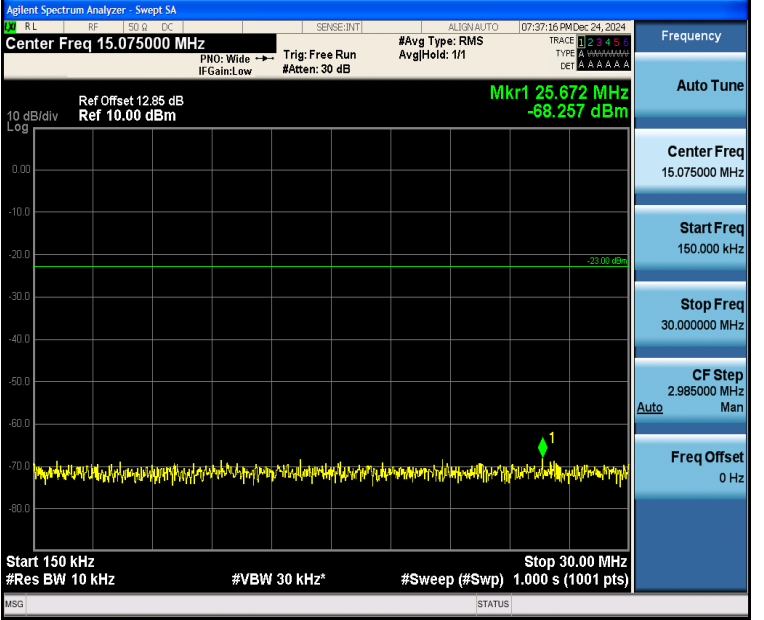
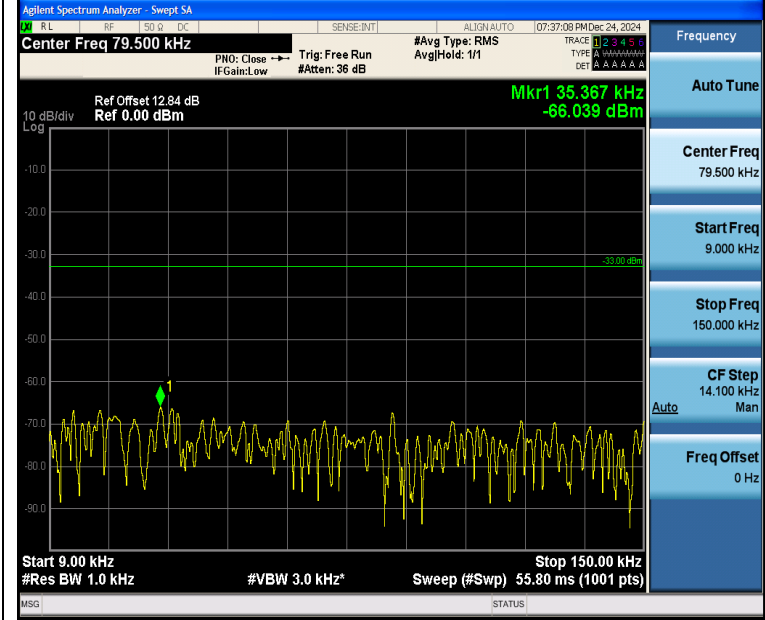
Band5\_10MHz\_QPSK\_20600\_1RB#49\_1000~3000\_1000~3000





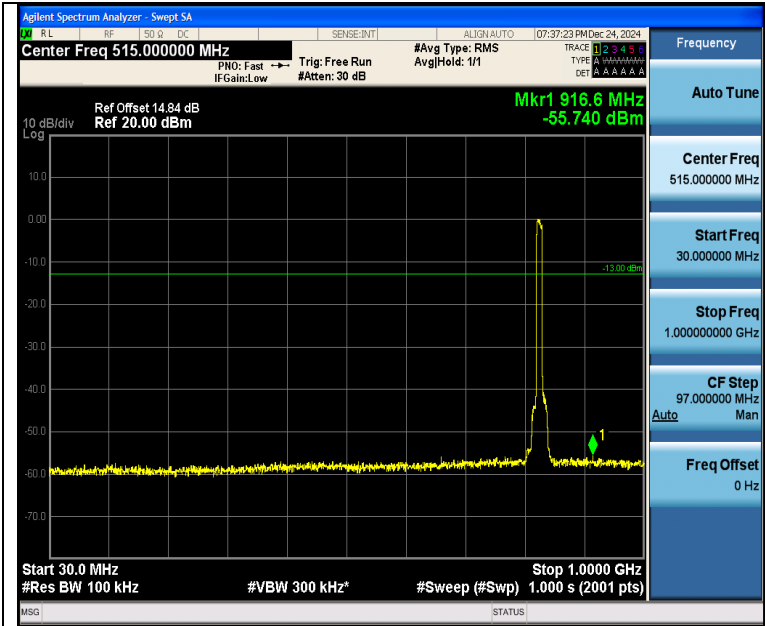
Band5\_10MHz\_16QAM\_20600\_1RB#49\_1000~3000\_1000~3000

Band5\_10MHz\_16QAM\_20600\_1RB#49\_3000~10000\_3000~10000

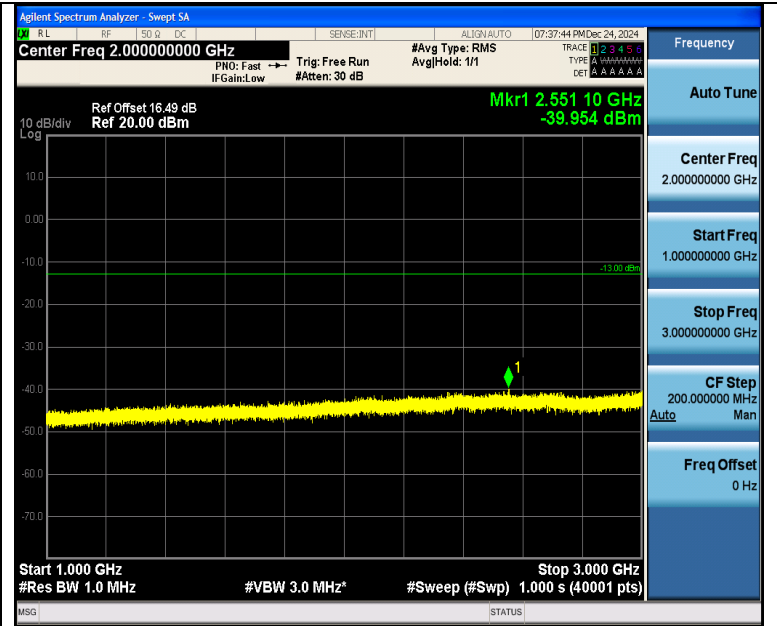


Band5\_10MHz\_QPSK\_20450\_50RB#0\_0.009~0.15\_0.009~0.15

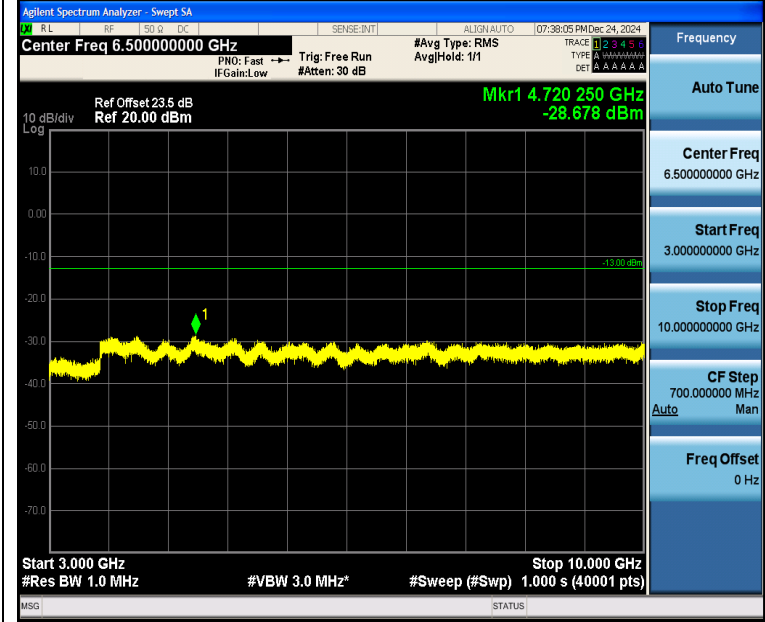
Band5\_10MHz\_QPSK\_20450\_50RB#0\_0.15~30\_0.15~30



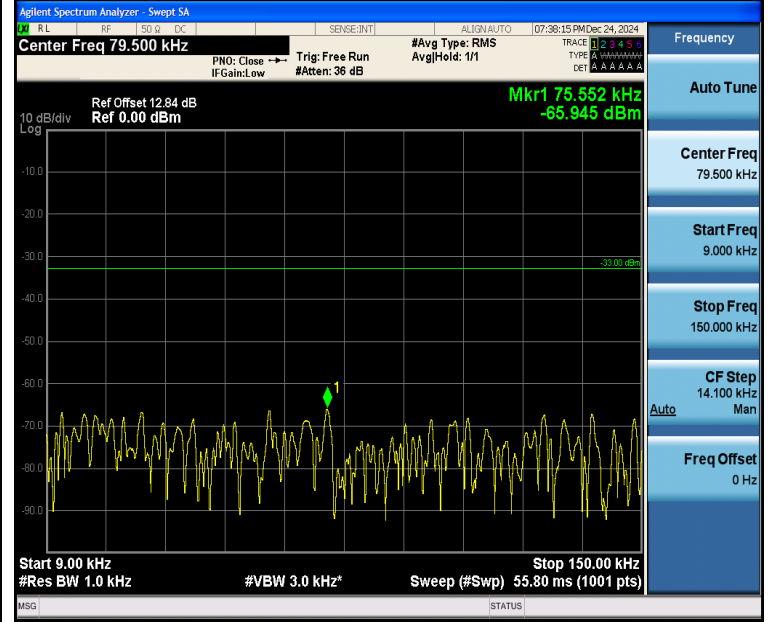
Band5\_10MHz\_QPSK\_20450\_50RB#0\_30~1000\_30~1000



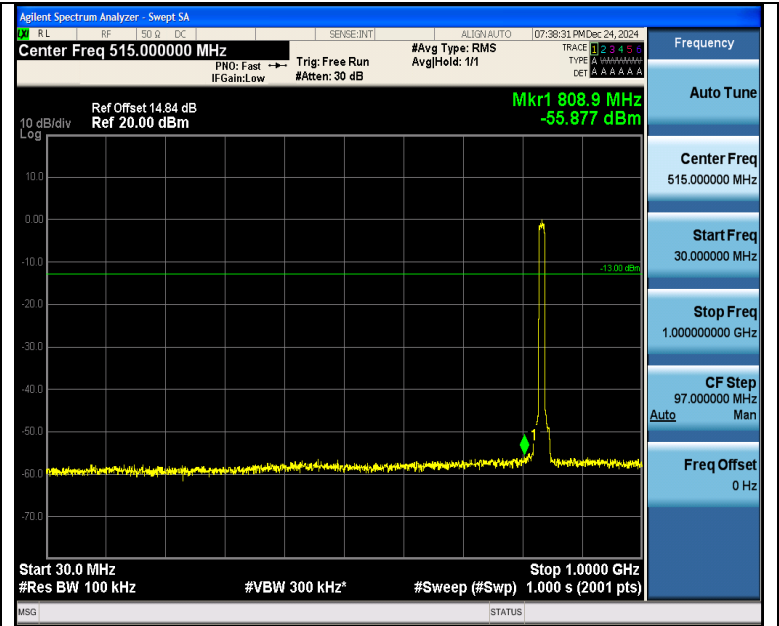
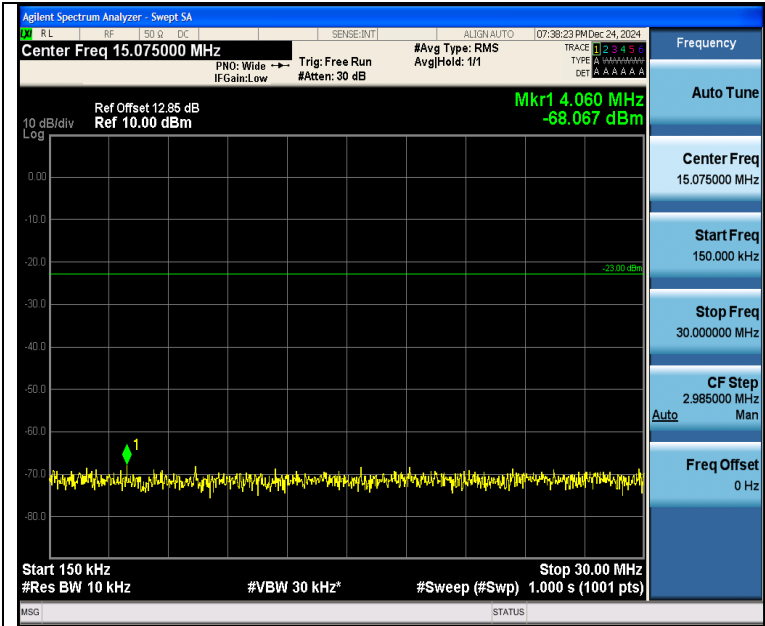
Band5\_10MHz\_QPSK\_20450\_50RB#0\_1000~3000\_1000~3000



Band5\_10MHz\_QPSK\_20450\_50RB#0\_3000~10000\_3000~10000

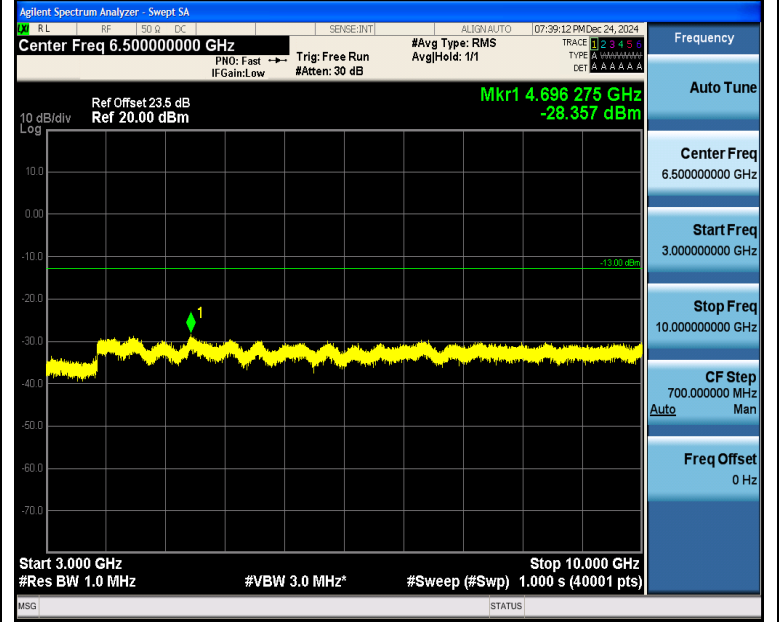
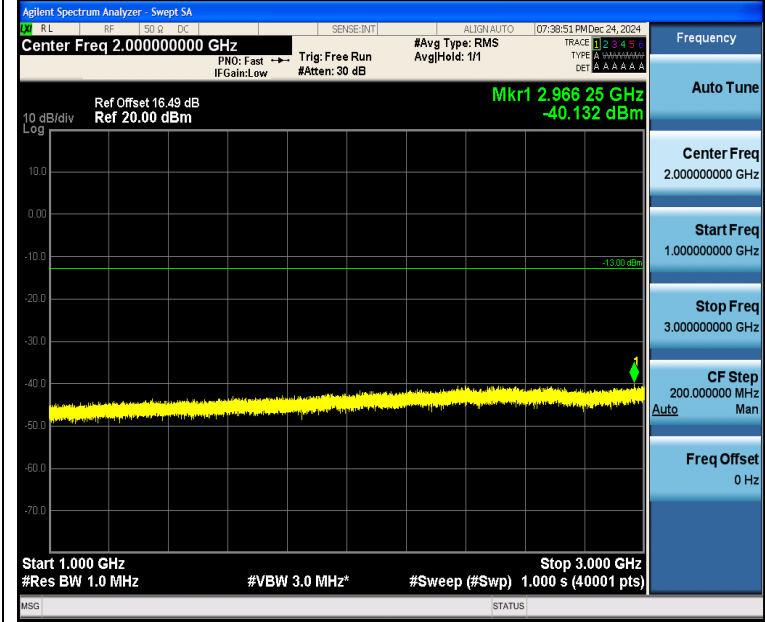


Band5\_10MHz\_QPSK\_20525\_50RB#0\_0.009~0.15\_0.009~0.15



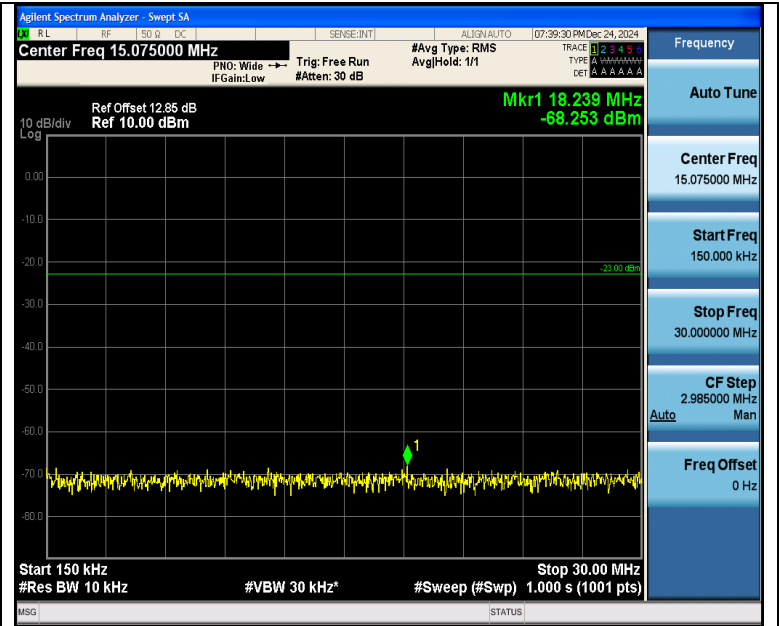
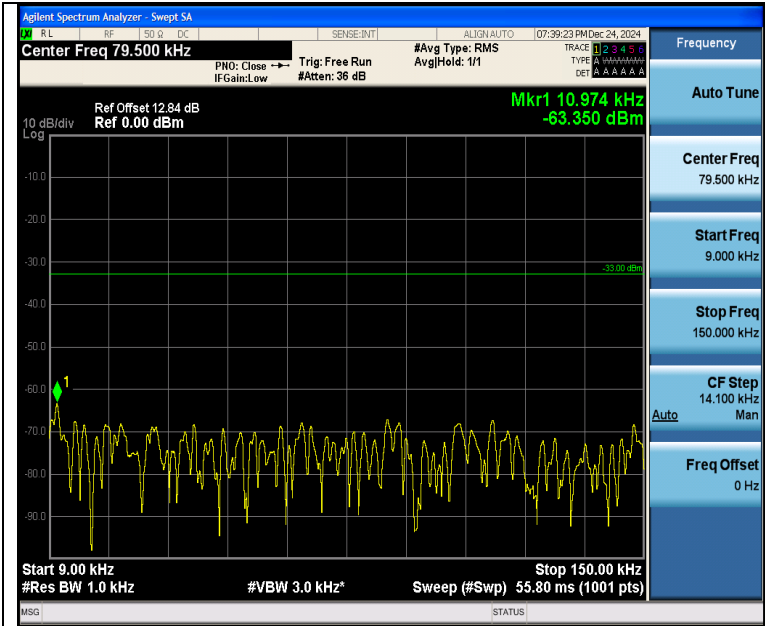
Band5\_10MHz\_QPSK\_20525\_50RB#0\_0.15~30\_0.15~30

Band5\_10MHz\_QPSK\_20525\_50RB#0\_30~1000\_30~1000



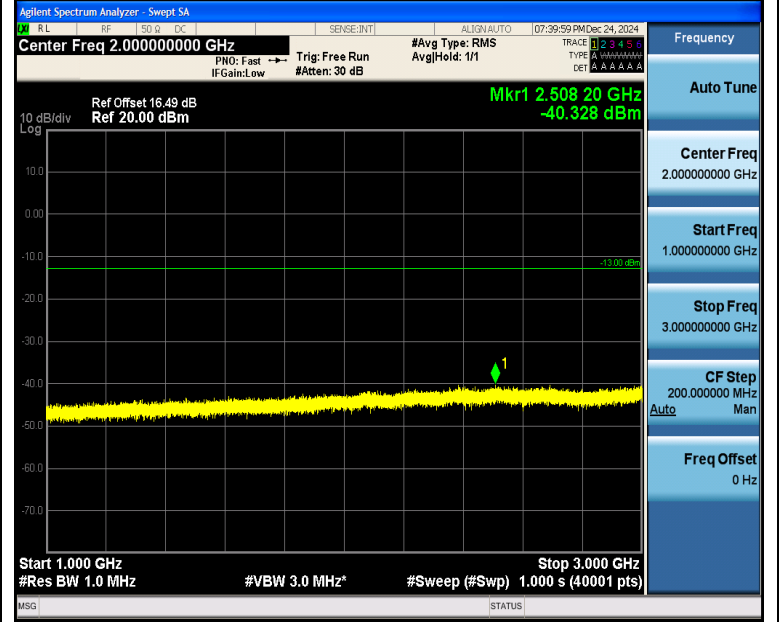
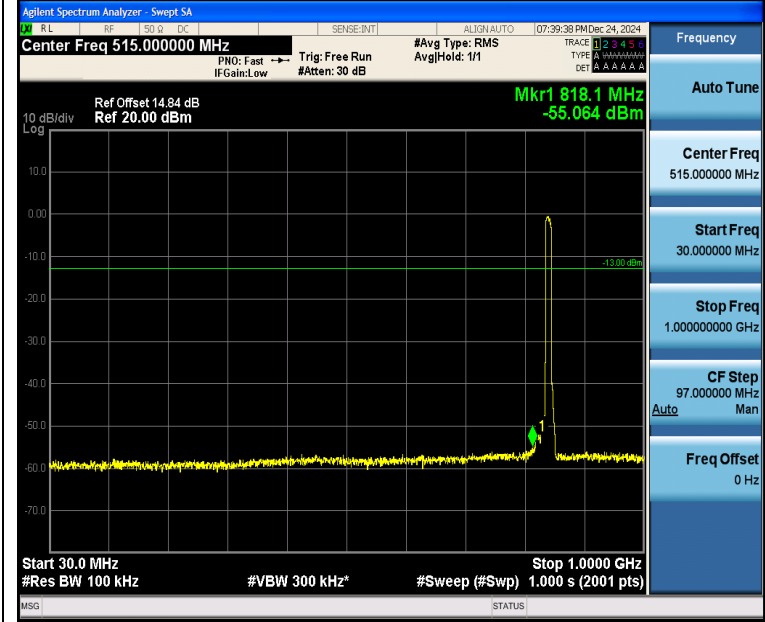
Band5\_10MHz\_QPSK\_20525\_50RB#0\_1000~3000\_1000~3000

Band5\_10MHz\_QPSK\_20525\_50RB#0\_3000~10000\_3000~10000



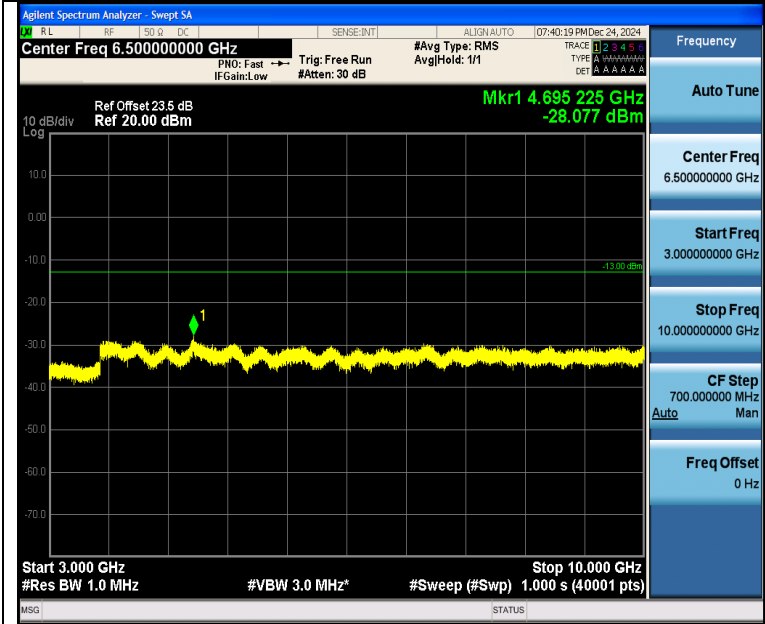
Band5\_10MHz\_QPSK\_20600\_50RB#0\_0.009~0.15\_0.009~0.15

Band5\_10MHz\_QPSK\_20600\_50RB#0\_0.15~30\_0.15~30



Band5\_10MHz\_QPSK\_20600\_50RB#0\_30~1000\_30~1000

Band5\_10MHz\_QPSK\_20600\_50RB#0\_1000~3000\_1000~3000



Band5\_10MHz\_QPSK\_20600\_50RB#0\_3000~10000\_3000~10000 /

## Appendix F: Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5   | 1.4MHz    | QPSK       | 20407   | 6RB#0        | VN            | NT               | -3.18          | -0.003856       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20407   | 6RB#0        | VL            | NT               | -3.43          | -0.004159       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20407   | 6RB#0        | VH            | NT               | -7.07          | -0.008573       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20407   | 6RB#0        | VN            | NT               | -2.86          | -0.003468       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20407   | 6RB#0        | VL            | NT               | -2.99          | -0.003626       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20407   | 6RB#0        | VH            | NT               | -4.21          | -0.005105       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20525   | 6RB#0        | VN            | NT               | -3.02          | -0.003610       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20525   | 6RB#0        | VL            | NT               | 17.31          | 0.020693        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20525   | 6RB#0        | VH            | NT               | 1.57           | 0.001877        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20525   | 6RB#0        | VN            | NT               | -3.18          | -0.003802       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20525   | 6RB#0        | VL            | NT               | -2.46          | -0.002941       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20525   | 6RB#0        | VH            | NT               | 2.29           | 0.002738        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20643   | 6RB#0        | VN            | NT               | -3.46          | -0.004079       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20643   | 6RB#0        | VL            | NT               | -2.32          | -0.002735       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20643   | 6RB#0        | VH            | NT               | 1.27           | 0.001497        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20643   | 6RB#0        | VN            | NT               | 2.66           | 0.003136        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20643   | 6RB#0        | VL            | NT               | -2.88          | -0.003395       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20643   | 6RB#0        | VH            | NT               | -4.26          | -0.005022       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20415   | 15RB#0       | VN            | NT               | -2.93          | -0.003549       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20415   | 15RB#0       | VL            | NT               | -2.32          | -0.002810       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20415   | 15RB#0       | VH            | NT               | -1.67          | -0.002023       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20415   | 15RB#0       | VN            | NT               | -2.32          | -0.002810       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20415   | 15RB#0       | VL            | NT               | 1.50           | 0.001817        | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20415   | 15RB#0       | VH            | NT               | -3.23          | -0.003913       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20525   | 15RB#0       | VN            | NT               | -2.78          | -0.003323       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20525   | 15RB#0       | VL            | NT               | -4.22          | -0.005045       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20525   | 15RB#0       | VH            | NT               | 2.12           | 0.002534        | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20525   | 15RB#0       | VN            | NT               | -3.58          | -0.004280       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20525   | 15RB#0       | VL            | NT               | -1.39          | -0.001662       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20525   | 15RB#0       | VH            | NT               | -3.25          | -0.003885       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20635   | 15RB#0       | VN            | NT               | -3.38          | -0.003988       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20635   | 15RB#0       | VL            | NT               | -4.85          | -0.005723       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20635   | 15RB#0       | VH            | NT               | -2.55          | -0.003009       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20635   | 15RB#0       | VN            | NT               | -3.92          | -0.004625       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20635   | 15RB#0       | VL            | NT               | -3.40          | -0.004012       | ±2.5        | PASS    |

|       |       |       |       |        |    |    |        |           |      |      |
|-------|-------|-------|-------|--------|----|----|--------|-----------|------|------|
| Band5 | 3MHz  | 16QAM | 20635 | 15RB#0 | VH | NT | -4.32  | -0.005097 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20425 | 25RB#0 | VN | NT | -3.16  | -0.003823 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20425 | 25RB#0 | VL | NT | -3.26  | -0.003944 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20425 | 25RB#0 | VH | NT | -4.33  | -0.005239 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | VN | NT | -3.55  | -0.004295 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | VL | NT | -5.12  | -0.006195 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | VH | NT | -3.60  | -0.004356 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | VN | NT | 2.33   | 0.002785  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | VL | NT | -18.05 | -0.021578 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | VH | NT | -2.10  | -0.002510 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | VN | NT | 8.17   | 0.009767  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | VL | NT | 1.14   | 0.001363  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | VH | NT | -3.00  | -0.003586 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | VN | NT | 2.25   | 0.002658  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | VL | NT | 2.46   | 0.002906  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | VH | NT | 2.78   | 0.003284  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | VN | NT | 0.97   | 0.001146  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | VL | NT | -2.93  | -0.003461 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | VH | NT | -2.09  | -0.002469 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | VN | NT | -3.05  | -0.003679 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | VL | NT | 1.77   | 0.002135  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | VH | NT | -2.57  | -0.003100 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | VN | NT | -1.83  | -0.002188 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | VL | NT | -4.62  | -0.005523 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | VH | NT | -3.68  | -0.004399 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | VN | NT | -2.50  | -0.002962 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | VL | NT | -2.05  | -0.002429 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | VH | NT | 2.56   | 0.003033  | ±2.5 | PASS |

| Temperature |           |            |         |                  |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|------------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configuration | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | -30              | -3.06          | -0.003710       | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | -20              | -5.29          | -0.006414       | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | -10              | -7.10          | -0.008609       | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 0                | -4.45          | -0.005396       | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 10               | -6.88          | -0.008342       | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 20               | -4.51          | -0.005469       | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 30               | -4.82          | -0.005845       | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 40               | -3.62          | -0.004389       | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 50               | -4.86          | -0.005893       | ±2.5        | PASS    |

|       |        |       |       |       |    |     |       |           |      |      |
|-------|--------|-------|-------|-------|----|-----|-------|-----------|------|------|
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | -30 | -4.31 | -0.005226 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | -20 | -4.56 | -0.005529 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | -10 | -4.58 | -0.005554 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 0   | -2.95 | -0.003577 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 10  | -3.35 | -0.004062 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 20  | -4.33 | -0.005250 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 30  | -5.11 | -0.006196 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 40  | -3.46 | -0.004195 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | NV | 50  | -2.62 | -0.003177 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0 | NV | -30 | -2.90 | -0.003467 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0 | NV | -20 | 9.14  | 0.010926  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0 | NV | -10 | 1.87  | 0.002236  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0 | NV | 0   | -2.42 | -0.002893 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0 | NV | 10  | -2.69 | -0.003216 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0 | NV | 20  | -3.42 | -0.004088 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0 | NV | 30  | 10.13 | 0.012110  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0 | NV | 40  | -1.86 | -0.002224 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0 | NV | 50  | -3.10 | -0.003706 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | -30 | 2.22  | 0.002654  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | -20 | -3.42 | -0.004088 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | -10 | -1.87 | -0.002236 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 0   | -1.67 | -0.001996 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 10  | 1.69  | 0.002020  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 20  | -3.56 | -0.004256 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 30  | -4.05 | -0.004842 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 40  | -2.79 | -0.003335 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | NV | 50  | -5.06 | -0.006049 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0 | NV | -30 | -3.93 | -0.004633 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0 | NV | -20 | -2.35 | -0.002770 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0 | NV | -10 | -2.99 | -0.003525 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0 | NV | 0   | -2.70 | -0.003183 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0 | NV | 10  | -2.22 | -0.002617 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0 | NV | 20  | -2.55 | -0.003006 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0 | NV | 30  | -3.03 | -0.003572 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0 | NV | 40  | 2.99  | 0.003525  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0 | NV | 50  | -2.95 | -0.003478 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | -30 | -2.66 | -0.003136 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | -20 | 9.87  | 0.011635  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | -10 | 2.32  | 0.002735  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | 0   | 2.70  | 0.003183  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | NV | 10  | 3.49  | 0.004114  | ±2.5 | PASS |

|       |        |       |       |        |    |     |        |           |      |      |
|-------|--------|-------|-------|--------|----|-----|--------|-----------|------|------|
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 20  | -4.19  | -0.004939 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 30  | -2.25  | -0.002652 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 40  | 3.78   | 0.004456  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 50  | -2.09  | -0.002464 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | -30 | -2.50  | -0.003028 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | -20 | 1.76   | 0.002132  | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | -10 | 2.49   | 0.003016  | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 0   | 2.27   | 0.002750  | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 10  | 1.27   | 0.001538  | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 20  | -1.85  | -0.002241 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 30  | -2.85  | -0.003452 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 40  | -3.22  | -0.003901 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 50  | 2.60   | 0.003150  | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | NV | -30 | 2.63   | 0.003186  | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | NV | -20 | 2.39   | 0.002895  | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | NV | -10 | 2.55   | 0.003089  | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | NV | 0   | 1.49   | 0.001805  | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | NV | 10  | -4.39  | -0.005318 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | NV | 20  | -3.35  | -0.004058 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | NV | 30  | 2.90   | 0.003513  | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | NV | 40  | -4.46  | -0.005403 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | NV | 50  | 3.89   | 0.004712  | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | -30 | -16.25 | -0.019426 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | -20 | -2.22  | -0.002654 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | -10 | -1.73  | -0.002068 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | 0   | 2.43   | 0.002905  | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | 10  | 7.04   | 0.008416  | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | 20  | -1.46  | -0.001745 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | 30  | 1.76   | 0.002104  | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | 40  | -2.10  | -0.002510 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | 50  | -2.92  | -0.003491 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | NV | -30 | -2.79  | -0.003335 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | NV | -20 | -2.33  | -0.002785 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | NV | -10 | -1.67  | -0.001996 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | NV | 0   | 2.09   | 0.002499  | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | NV | 10  | 2.22   | 0.002654  | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | NV | 20  | -3.08  | -0.003682 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | NV | 30  | -2.05  | -0.002451 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | NV | 40  | -1.82  | -0.002176 | ±2.5 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | NV | 50  | 10.06  | 0.012026  | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 15RB#0 | NV | -30 | -2.78  | -0.003280 | ±2.5 | PASS |

|       |      |       |       |        |    |     |       |           |      |      |
|-------|------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | -20 | -3.45 | -0.004071 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | -10 | -2.62 | -0.003091 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 0   | -3.72 | -0.004389 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 10  | -2.70 | -0.003186 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 20  | -1.62 | -0.001912 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 30  | -5.76 | -0.006796 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 40  | -2.47 | -0.002914 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 50  | -3.32 | -0.003917 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | -30 | -2.73 | -0.003221 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | -20 | -3.58 | -0.004224 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | -10 | -1.40 | -0.001652 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 0   | -3.35 | -0.003953 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 10  | -4.71 | -0.005558 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 20  | -3.98 | -0.004696 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 30  | -3.30 | -0.003894 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 40  | -3.23 | -0.003811 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 50  | -3.78 | -0.004460 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | -30 | -2.20 | -0.002662 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | -20 | 2.07  | 0.002505  | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | -10 | -4.18 | -0.005057 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 0   | -3.49 | -0.004223 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 10  | -2.89 | -0.003497 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 20  | -4.15 | -0.005021 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 30  | -2.43 | -0.002940 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 40  | -4.39 | -0.005312 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 50  | -4.95 | -0.005989 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | -30 | -4.61 | -0.005578 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | -20 | -3.13 | -0.003787 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | -10 | -4.18 | -0.005057 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 0   | -4.63 | -0.005602 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 10  | -2.55 | -0.003085 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 20  | -3.20 | -0.003872 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 30  | -1.57 | -0.001900 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 40  | -2.57 | -0.003109 | ±2.5 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | NV | 50  | -3.05 | -0.003690 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | -30 | 1.87  | 0.002236  | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | -20 | -1.22 | -0.001458 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | -10 | -2.86 | -0.003419 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | 0   | 2.75  | 0.003288  | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | 10  | -2.07 | -0.002475 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | 20  | -2.36 | -0.002821 | ±2.5 | PASS |

|       |       |       |       |        |    |     |       |           |      |      |
|-------|-------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | NV | 30  | 15.89 | 0.018996  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | NV | 40  | -3.19 | -0.003814 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | NV | 50  | 2.06  | 0.002463  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | -30 | -2.66 | -0.003180 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | -20 | -3.99 | -0.004770 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | -10 | -3.33 | -0.003981 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 0   | -2.63 | -0.003144 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 10  | -2.73 | -0.003264 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 20  | -1.77 | -0.002116 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 30  | -1.87 | -0.002236 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 40  | -2.30 | -0.002750 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 50  | -2.32 | -0.002773 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | -30 | -2.85 | -0.003367 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | -20 | 2.49  | 0.002942  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | -10 | 2.73  | 0.003225  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 0   | 3.02  | 0.003568  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 10  | -1.77 | -0.002091 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 20  | -2.43 | -0.002871 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 30  | -1.76 | -0.002079 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 40  | 1.96  | 0.002315  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 50  | -1.20 | -0.001418 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | -30 | -3.03 | -0.003579 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | -20 | -3.18 | -0.003757 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | -10 | -2.36 | -0.002788 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 0   | -2.53 | -0.002989 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 10  | -3.06 | -0.003615 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 20  | -2.09 | -0.002469 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 30  | -2.25 | -0.002658 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 40  | -2.63 | -0.003107 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 50  | -2.47 | -0.002918 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | -30 | -2.30 | -0.002774 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | -20 | 2.39  | 0.002883  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | -10 | 1.77  | 0.002135  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 0   | -5.09 | -0.006140 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 10  | 1.43  | 0.001725  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 20  | 2.05  | 0.002473  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 30  | -2.30 | -0.002774 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 40  | -2.96 | -0.003571 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 50  | 2.68  | 0.003233  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | -30 | -3.12 | -0.003730 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | -20 | -3.33 | -0.003981 | ±2.5 | PASS |

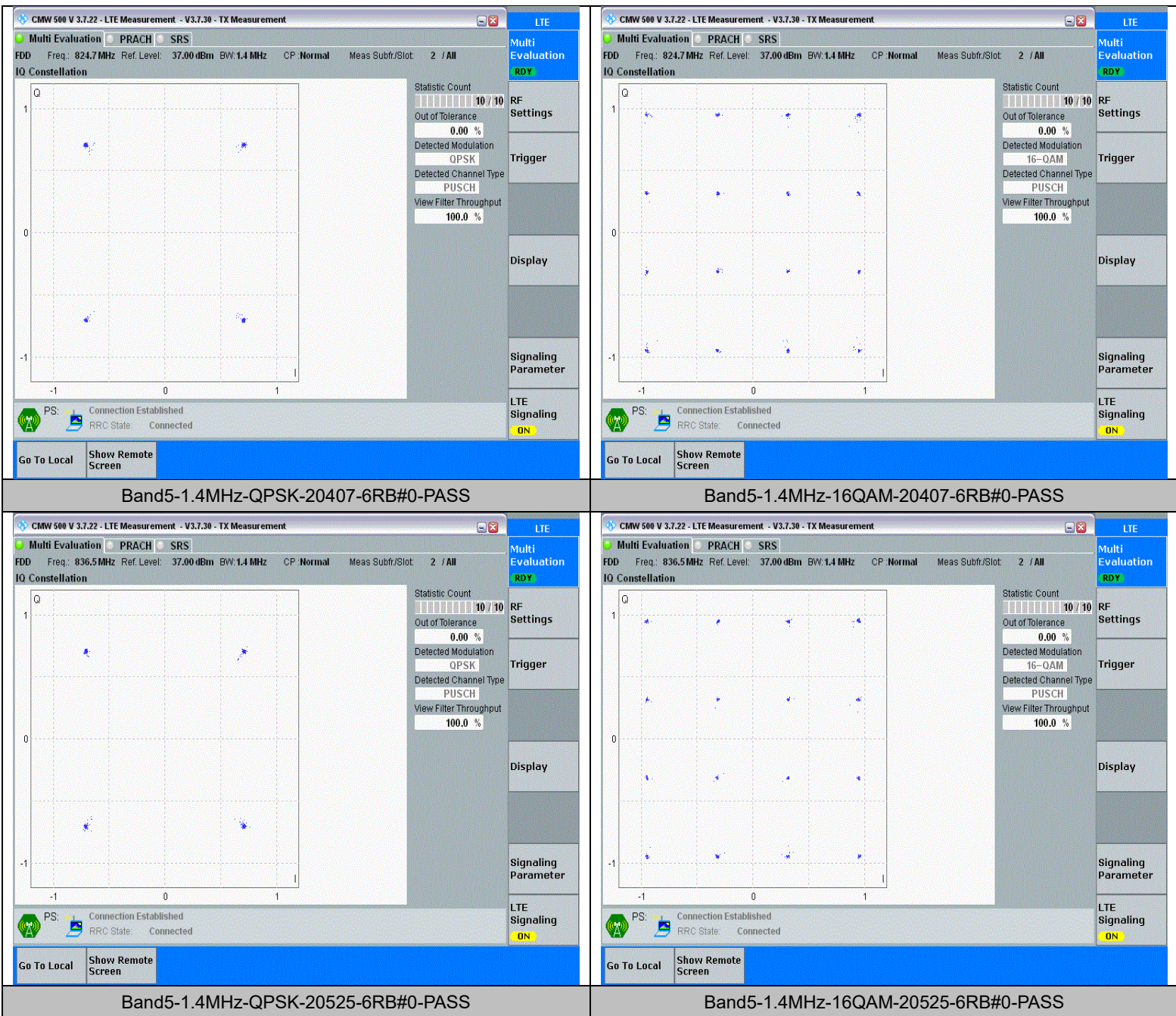
|       |       |      |       |        |    |     |       |           |      |      |
|-------|-------|------|-------|--------|----|-----|-------|-----------|------|------|
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -10 | -1.73 | -0.002068 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 0   | -3.00 | -0.003586 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 10  | -3.03 | -0.003622 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 20  | 1.93  | 0.002307  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 30  | -3.60 | -0.004304 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 40  | -3.95 | -0.004722 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 50  | -2.22 | -0.002654 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -30 | 2.22  | 0.002630  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -20 | 4.15  | 0.004917  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -10 | -2.15 | -0.002547 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 0   | -3.99 | -0.004727 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 10  | -1.99 | -0.002358 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 20  | -3.00 | -0.003555 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 30  | -2.30 | -0.002725 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 40  | 1.46  | 0.001730  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 50  | -3.30 | -0.003910 | ±2.5 | PASS |

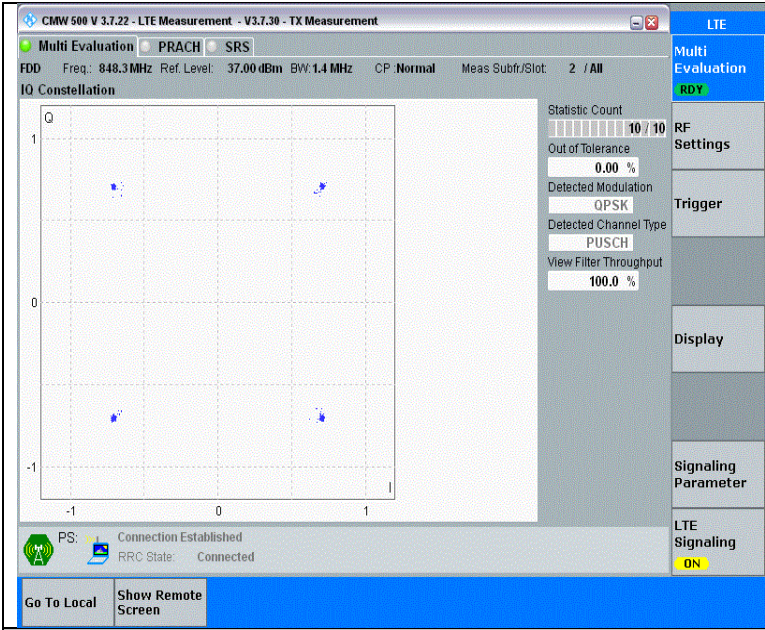
## Appendix G: Modulation Characteristics

### Test Result

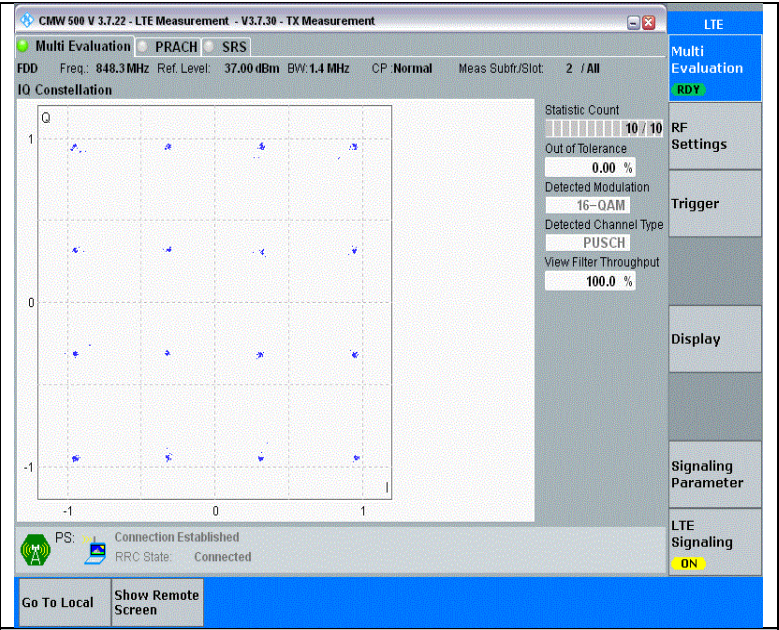
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Verdict |
|-------|-----------|------------|---------|------------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 1RB#0            | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 1RB#0            | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 1RB#0            | PASS    |

## Test Graphs

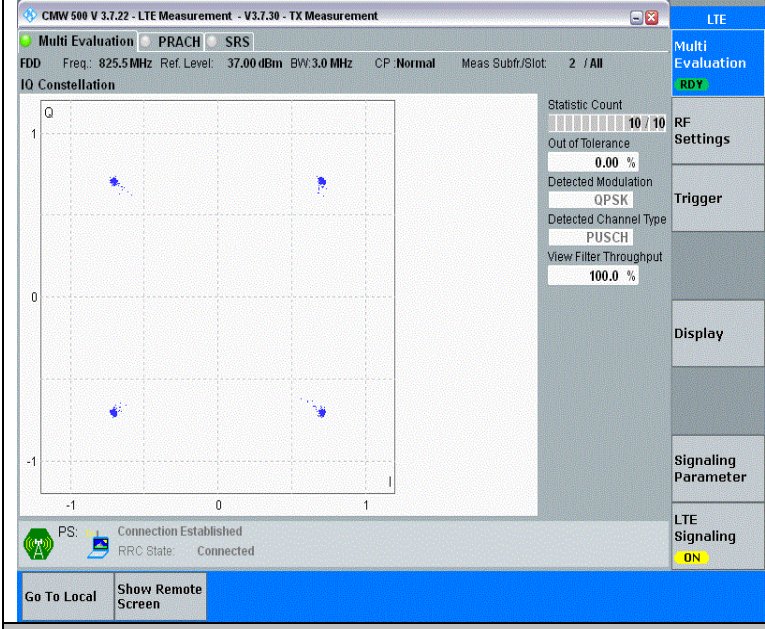




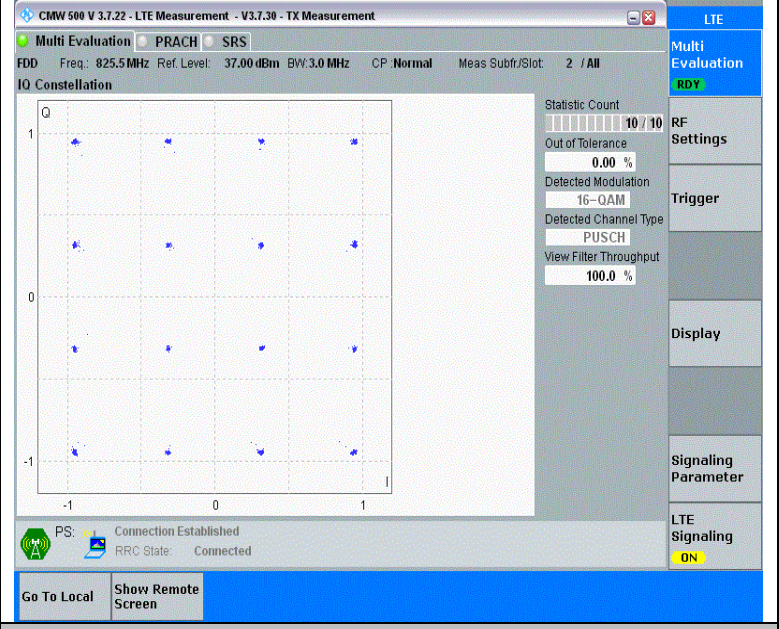
Band5-1.4MHz-QPSK-20643-6RB#0-PASS



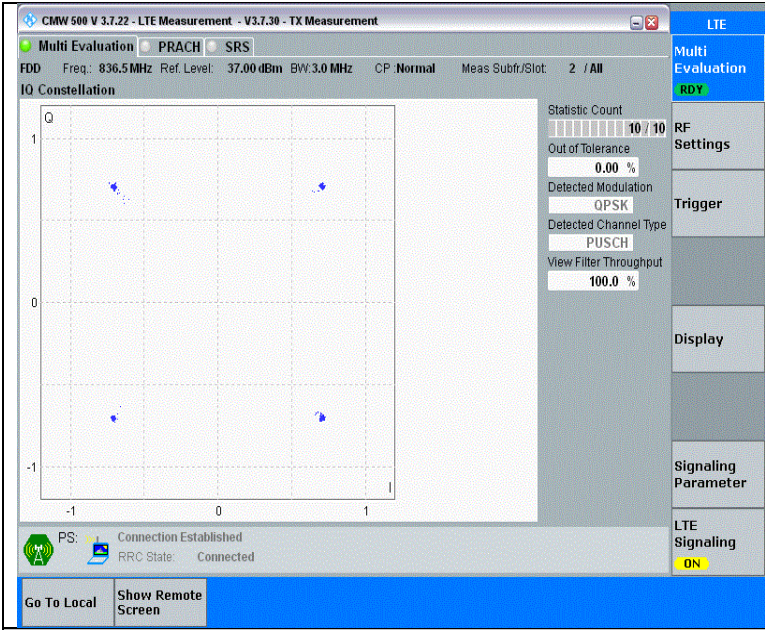
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



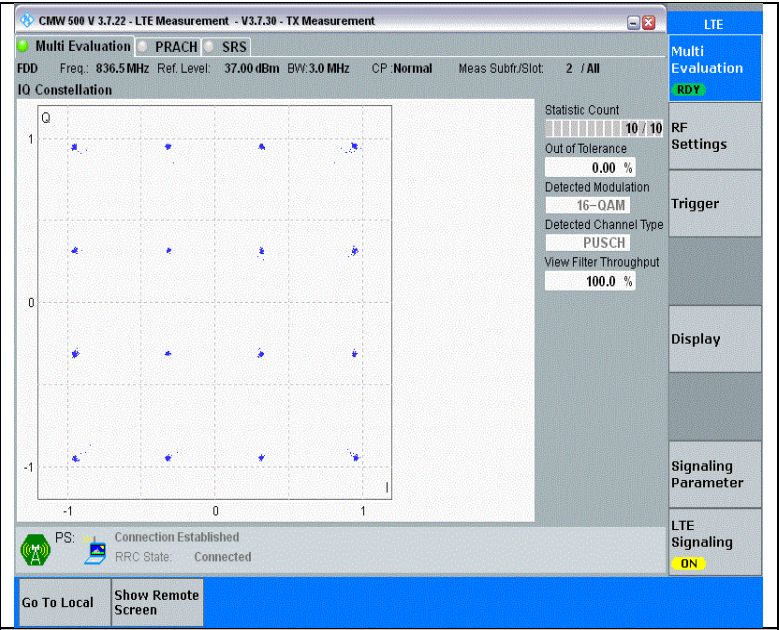
Band5-3MHz-QPSK-20415-15RB#0-PASS



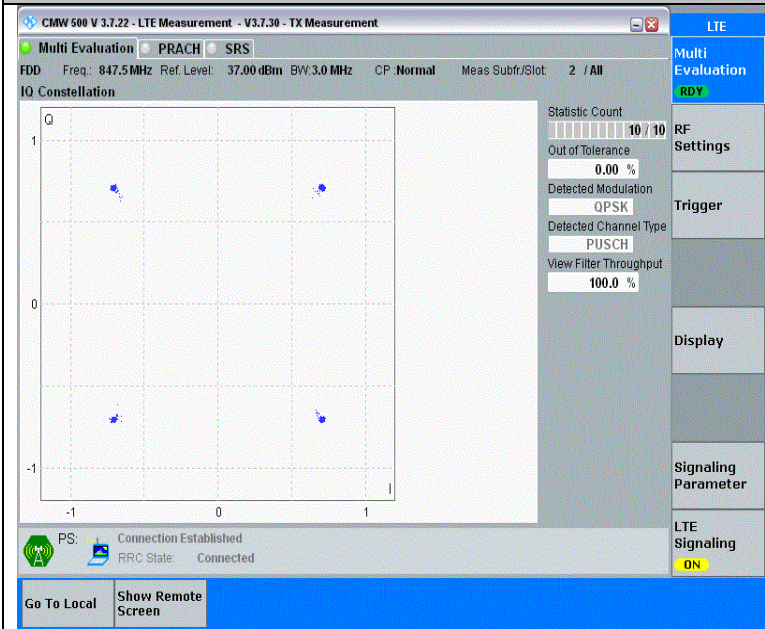
Band5-3MHz-16QAM-20415-15RB#0-PASS



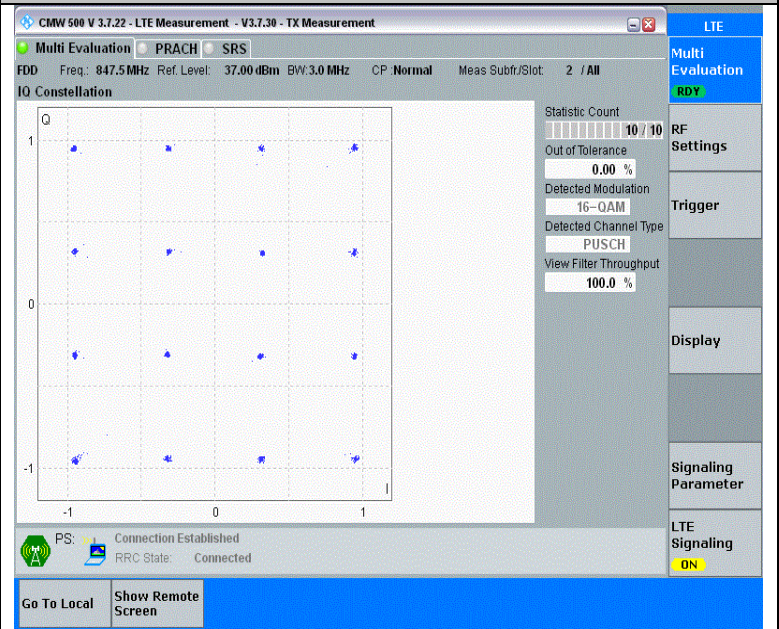
Band5-3MHz-QPSK-20525-15RB#0-PASS



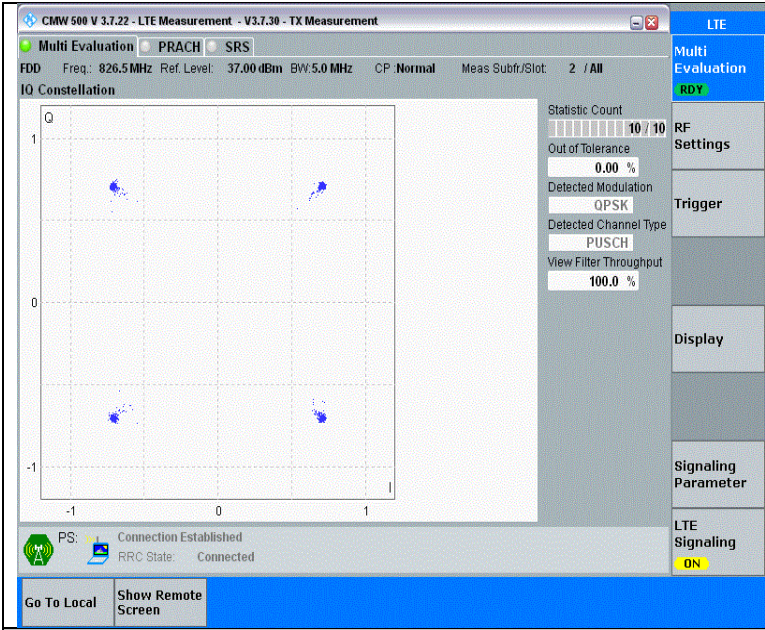
Band5-3MHz-16QAM-20525-15RB#0-PASS



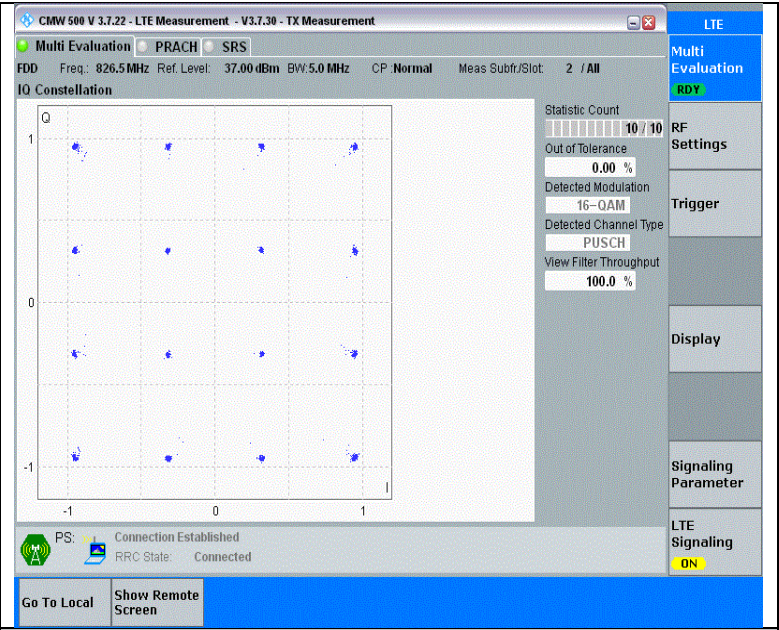
Band5-3MHz-QPSK-20635-15RB#0-PASS



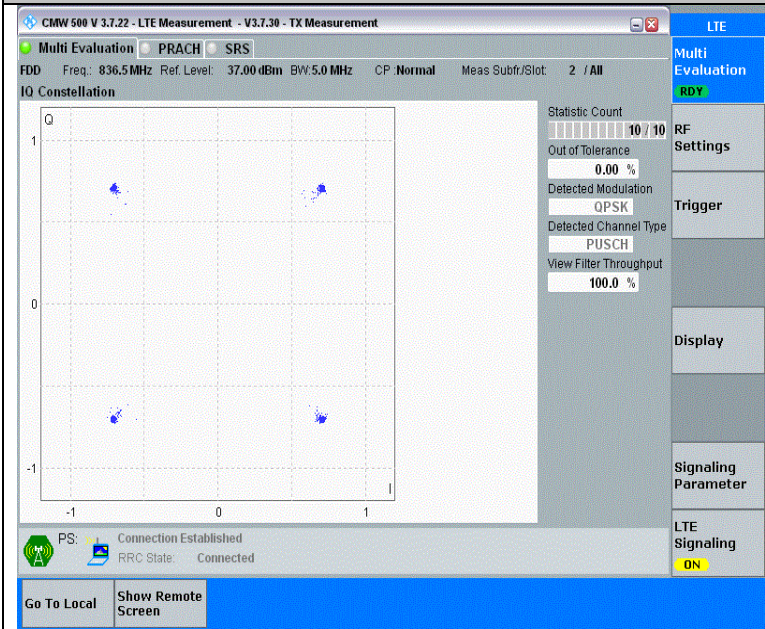
Band5-3MHz-16QAM-20635-15RB#0-PASS



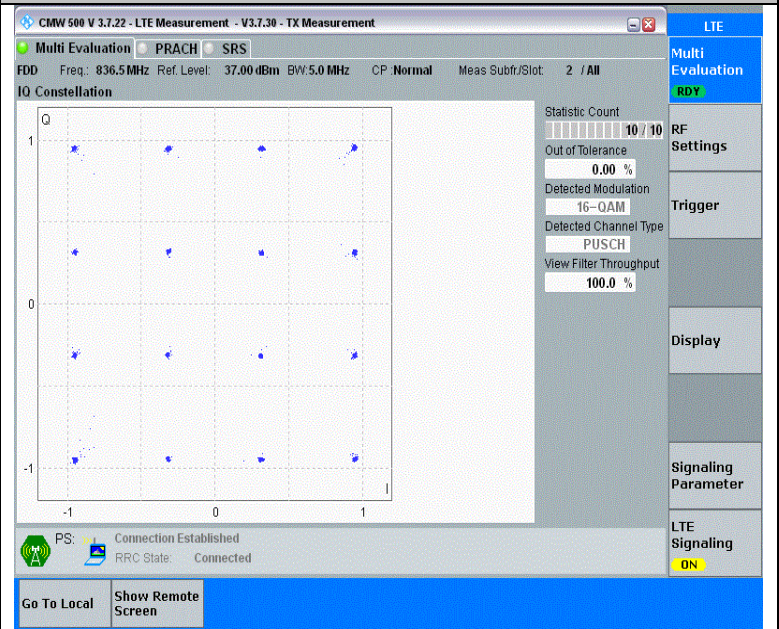
Band5-5MHz-QPSK-20425-25RB#0-PASS



Band5-5MHz-16QAM-20425-25RB#0-PASS



Band5-5MHz-QPSK-20525-25RB#0-PASS



Band5-5MHz-16QAM-20525-25RB#0-PASS